NEW COUPLED ORDER HADAMARD OPERATORS AND SOME APPLICATIONS

MOHAMED BEZZIOU¹, and ZOUBIR DAHMANI²*

Communicated by M. Krnić

Abstract. In this paper, we introduce new Hadamard type operators “with respect to another function”. Some properties of the introduced operators are proved and some applications are discussed. For our results, some recent results related to Hadamard operators are deduced as some special cases.

References


*Corresponding author.

2010 Mathematics Subject Classification. Primary 26D10; Secondary 31B10.

Key words and phrases. Hadamard integral, mixed Hadamard operators, coupled orders, Minkowski inequality.


1Department of Mathematics, UDBKM University 44001 Khemis-Miliana and Laboratory, LPAM, UMAB University, Algeria.

E-mail address: m.bezziou@univ-dbkm.dz

2Department of Mathematics, Laboratory, LPAM, Faculty SEI, UMAB University, 27000 Mostaganem-RP, Algeria.

E-mail address: zzdahmani@yahoo.fr